Adaptive Processing for EOS AM-1

Ed Masuoka

MODIS SDST

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Approach

- Processing priorities, standards and approach set by MODIS PI Science Team
- Focus on producing quality science products
- Support for daily production and Q/A tasks
- Production of Ocean products in TL-SCF
- Archive and distribution by the GSFC DAAC

Processing/Reprocessing

- 100% of Ocean products at-launch with the improved science algorithms from Miami

- Resources for Reprocessing

  1x at L+1 year

  2x at L+2years

  4x at L+3 and L+4years

- Resources for SSI&T

  .2x at L+1, .4x at L+2 and .8x at L+3 and beyond

Ocean Support

- 1 Ocean Production Lead
- 1 Q/A specialist
  - Post-Doc hired by Oceans Team
- 1 Software Developer/Miami Liaison
  - Hired by Ocean Team
  - Responsible to Evans
  - Supervised by Esaias
- 1 Software developer (SDST)
- 1 Integration and Test (SDST)

Hardware proposed in Budget

- Budget was based upon:
  - SGI Origin 2000s and follow-on systems
  - 1TB of online storage per 32 processors
  - Fibre Channel or HiPPI 6400 interconnect for Origin 2000s
  - Each discipline will have dedicated processing strings
  - Additional 25TB nearline archive

Computing Approach

- At-launch system will be SGI Origin 2000 from ECS
- Consult with Bob Evans to determine best hardware configuration for subsequent years
  - Looking at DEC "Wildfire"
  - Also looking at clusters of DEC Alpha's connected to Origin 2000 server